

Rose-Hulman Institute of Technology

## Rose-Hulman Scholar

---

The Rose Thorn Archive

Student Newspaper

---

Winter 2-6-2017

### Volume 52 - Issue 16 - Monday, February 6, 2016

Rose Thorn Staff

*Rose-Hulman Institute of Technology*, [library@rose-hulman.edu](mailto:library@rose-hulman.edu)

Follow this and additional works at: <https://scholar.rose-hulman.edu/rosethorn>

---

#### Recommended Citation

Rose Thorn Staff, "Volume 52 - Issue 16 - Monday, February 6, 2016" (2017). *The Rose Thorn Archive*. 1154.

<https://scholar.rose-hulman.edu/rosethorn/1154>

THE MATERIAL POSTED ON THIS ROSE-HULMAN REPOSITORY IS TO BE USED FOR PRIVATE STUDY, SCHOLARSHIP, OR RESEARCH AND MAY NOT BE USED FOR ANY OTHER PURPOSE. SOME CONTENT IN THE MATERIAL POSTED ON THIS REPOSITORY MAY BE PROTECTED BY COPYRIGHT. ANYONE HAVING ACCESS TO THE MATERIAL SHOULD NOT REPRODUCE OR DISTRIBUTE BY ANY MEANS COPIES OF ANY OF THE MATERIAL OR USE THE MATERIAL FOR DIRECT OR INDIRECT COMMERCIAL ADVANTAGE WITHOUT DETERMINING THAT SUCH ACT OR ACTS WILL NOT INFRINGE THE COPYRIGHT RIGHTS OF ANY PERSON OR ENTITY. ANY REPRODUCTION OR DISTRIBUTION OF ANY MATERIAL POSTED ON THIS REPOSITORY IS AT THE SOLE RISK OF THE PARTY THAT DOES SO.

This Book is brought to you for free and open access by the Student Newspaper at Rose-Hulman Scholar. It has been accepted for inclusion in The Rose Thorn Archive by an authorized administrator of Rose-Hulman Scholar. For more information, please contact [weir1@rose-hulman.edu](mailto:weir1@rose-hulman.edu).

## Security on the Frontline

### Campus learns real world challenges from Firefox's Head of Security

Marc Schmitt

Editor-in-Chief

The Computer Science and Software Engineering department hosted a software security talk by Richard Barnes on Monday, January 30. As the Head of Security for Mozilla's Firefox web browser, Barnes talked about the needs and challenges of protecting users from malware.

The talk three areas in which solutions and techniques can be applied to minimize risk to users while increasing the quality of the software. Barnes started off by discussing the benefits of open source software, reminding those in attendance of Firefox's freely accessible source code.

In moving to a broader scope, Barnes asserted that a guiding principal in building secure software is to best defend the user from the software developers. A user should be protected in the case that a developer's

systems are compromised by a malicious actor.

The real shift in thinking required, according to Barnes, is developing systems that spread risk out over multiple systems. This means compromises must be made in the business sense where control and trust are distributed to multiple actors. A difficult mindset must be adopted, that software vendors should not trust themselves.

In discussing open source software, the primary benefit, according to Barnes, is the ability for everyone to conduct analysis on a piece of software's source code. If you can see what is in a piece of software, then you can spot the malicious code before running it.

There are caveats to this approach, specifically dealing with the size of the software as well as the process in producing the runnable program from that source code, called a binary.

Firstly, when a piece of software is small it is relatively easy to see all of the code that goes into the program, but this process quickly breaks down when you get to modern day programs. To put it in perspective, Microsoft's Windows operating system has over 40 million lines of code. On top of that, the automated tools to analyze code are only so good at detecting malicious code or bugs that can be exploited. Controlling code additions is a recognized weakness in both open source and closed sourcesoftware.

The chain of steps required when producing the binary represents another liability with open source software. The challenge here is how to assure the correct source code was used to generate a given binary, which threatens to negate the benefit of open source software. That the binary generation process is spread over many systems only serves to increase the complexity of the challenge.

Barnes offered two techniques to combat this problem. One is the idea of reproducible builds, where multiple actors can produce the same binary from the same

source code and then compare those binaries to assure that they are in fact legitimate. However, this idea is difficult to implement given the complexity of the binary generation process. All of the dissimilarities between two computers are carried over to their respective binaries. While there are some software projects out there that have had some success in implementing reproducible builds, the goal is far from being accomplished for the vast majority of software.

Another idea put forth is called binary transparency, where all updates are published in a public log. In this system there are multiple authorities that sign a software update, that is to say they are verifying its authenticity, and a quorum of authorities are required to release an update. Cross-verification of software updates can further improve the security of updates by spreading trust among multiple actors, reducing the risk to users in the case that one actor is compromised or acts in a malicious manner. Problems exist with this system as well, such as vulnerabilities in the public log, but they can again be mitigated by specific policies and transparency throughout systems.

Unfortunately, all the solutions discussed above take time and effort to design and implement, which are even more burdensome when the software already exists. Firefox, for example, is only in the preliminary stages of implementing binary reproducibility. Barnes argued that continued scrutiny and a focus at the beginning of software projects should be given to security. This is a required shift in thinking for CSSE students but also for other students that deal with sensitive information.

The Computer Science and Software Engineering department will be hosting a talk on deep learning in computer vision on Tuesday, February 7 during 10th hour in the GM Room. The talk will be given by David Crandall, an associate professor at the School of Informatics and computing at Indiana University.



Richard Barnes is the head of security for Mozilla's Firefox web browser.

Photo from [Linkedin.com](#)



Page 4: Musical medley: Jazz Age Z and contemporary *Sing*

Page 5: Diary of an assassin: Part 2

Page 6: Keep your <religion> out of my <group>!

Page 7: RHIT Sports and Golden State's Domination

**The Rose Thorn**  
**Meet Tuesdays**  
**0259 5:15pm**

## Double the Laughs

### Month of a Million Laughs Continues Friday

Lauren Wiseman

News Editor

Winter quarter is nearly over, but there are still a couple of grueling weeks ahead for Rose-Hulman students. To combat the winter blues while the season looms large over campus, the Month of a Million Laughs continues with a pair of comedians sure to lift



Taylor Tomlinson be on campus on Friday, February 10.

Photo from [Facebook](#)

students' spirits.

Part one of the night is the standup routine of Jose Barrientos. Barrientos took being a class clown to a whole new level, spending four whole months of his college career with a "typical Hispanic immigrant accent," according to his website. The spur-of-the-moment act grew and was documented in series of youtube videos. In the series, Barrientos added comically large sombreros and a backstory that cast him as a piñata maker with an insatiable love for David Hasselhoff.

There is a twist, because his website goes on to say the prank evolved into something more, a bit of a "social experiment." Barrientos and the prank went viral, quickly drawing the attention of national news program 20/20. Since the prank, Barrientos has been travelling the country sharing his comedy through the eyes of an immigrant.

Taylor Tomlinson will also be taking the stage in the Khan Room. Her stand-up career beings at just sixteen-years-old. For years, Tomlinson would offer up sarcastic

comments. She spent many years trying to garner the appreciation she deserved.

Tomlinson used to self-deprecating wit to make her a staple at clubs, campuses, and, according to her website, "other suspicious, rented spaces across the country." Some may recognize Tomlin-

son from her segment on Laughs on FOX, which she now hosts. Tomlinson also has a featured role on Adam Devine's House Party.

The event kicks off February 10 at 8 p.m. in the Kahn Room. So take a night off and have a laugh—Rose's student body has earned it.



Jose Barrientos demonstrating his faux-heritage as a piñata maker. This clip was apart of his viral prank that launched his standup career.

Photos Courtesy of [The Daily Mail](#)



## Looking for an off-campus house?

- 4 bedrooms, 2 bathrooms, 1,550 square feet
- 4.1 acre lot with plenty of privacy
- Includes living room, dining room, and kitchen
- \$1190 per month for all utilities except electricity
- Lawn mowing included
- Shared access to swimming pool
- Available for remainder of school year and/or next year



Call Brett Gibson at 812-237-9119 or email [brett.j.gibson@bgibson.com](mailto:brett.j.gibson@bgibson.com)  
Located at 9842 E Deer Run Drive, Terre Haute, IN 47803

**Want to access your favorite old issues of The Rose Thorn? Find them at**

**[scholar.rose-hulman.edu/rosethorn/](http://scholar.rose-hulman.edu/rosethorn/)**

# NOW RENTING FOR 2017-2018

**IDEAL HOUSING DOWNTOWN CLOSE TO 6<sup>TH</sup> STREET**  
**WITH A VARIETY OF PRICES TO FIT YOUR BUDGET**

**We Offer...**

- Renovated grand, historic homes
- Charming, well-managed residences
- Residences include all or some utili-

✓ STUDIOS

✓ 1-10 BEDROOM UNITS

✓ GREAT MAINTENANCE

✓ OFF-STREET PARKING

✓ AND MORE!

## Sharp Flats LLC

**RENTAL PROPERTIES**

**Contact Us!**

**(812)-877-1146**

**615 Farrington St.**

**[www.sharpflats.com](http://www.sharpflats.com)**

# THE ROSE THORN

ROSE-HULMAN INSTITUTE OF TECHNOLOGY, 5500 Wabash Ave, CM 5037, Terre Haute, IN 47803-3920 • [Thorn@Rose-Hulman.edu](mailto:Thorn@Rose-Hulman.edu)

## Our Mission Statement:

We are Rose-Hulman's independent student newspaper. We keep the Rose-Hulman community informed by providing an accurate and dependable source for news and information.

Marc Schmitt • *Editor-in-Chief*

Karlee Koetje • *Business Manager*

Nolan Hughes • *Business Manager*

Lauren Wiseman • *News Editor*

Curtis Humm • *Entertainment Editor*

Seun Ladipo • *Lifestyle Editor*

Thaddeus Hughes • *Opinions Editor*

John Chilton • *Sports Editor*

Blake Powell • *Sports Editor*

Lauren Santichen • *Flipside Editor*

Emma Oswood • *Copy Editor*

Dr. Thomas Adams • *Faculty Advisor*

Derek Hufferd • *Staff Writer*

Mason Diebold • *Staff Writer*

Joseph Lee • *Staff Writer*

Evelyne Maquelin • *Staff Writer*

ISSUES of The Rose Thorn are published on the second through ninth Mondays of each academic quarter

WEEKLY MEETINGS occur at 5:15 p.m. on the first through ninth Tuesdays of each academic quarter. All members of the Rose-Hulman community are welcome to attend.

SUBMISSION of articles, photographs, art, and letters to the editor is encouraged. Submission may be made by email to [thorn@rose-hulman.edu](mailto:thorn@rose-hulman.edu) or in person to Percopo room 031. The submission deadline is 5:00 p.m. Friday.

THE RIGHTS to accept submissions or changes made after the deadline, to edit submissions in so far as the original intent of the submission remains unaltered, and to reject submissions deemed inappropriate for print are reserved by the editors.

LETTERS TO THE EDITOR should be no longer than 600 words in length and must contain the writer's (electronic) signature.

THE VIEWS EXPRESSED herein are those of their respective authors and with the exception of the Staff View do not necessarily represent the views of the staff or the Rose-Hulman community.





## News Briefs

Joseph Lee

**Staff Writer**

### Air Pollution Possible Cause of Dementia, Study Finds

When one thinks about air pollution, the connection is generally made to smog, acid rain, and lung cancer. However, new research seems to provide some evidence of the harmful effects of pollution on the brain itself. In other words, all the tobacco smoke, vehicle emissions, wood burning, etc., may be a cause of concern for must than just healthy lungs.

Researchers viewed 3,600 women with no cases of dementia at the start of the study, female lab mice, and brain tissue in petri dishes. The results point towards that air pollution exceeding U.S. federal safety standards may rise the risk of declining in cognitive abilities by 81 percent and a 92 percent increase in the possibility in the development of dementia.

Furthermore, the researchers claim that 21 percent of all dementia cases might be correlated with air pollution. While such may cause alarm and concern, the researchers do say the study does not provide definite evidence of a causal relationship between air pollution and the risk of dementia.

In addition to this, any evidence seen in the mice may not correlate with humans. However, such data from the research alone just might be enough evidence alone to put down the cigarette.

### U.S. Promises South Korean Protection

While President Trump is currently in the news for his immigration policies, the U.S. Defense Secretary James Mattis reassured South Korea of protection from North Korea. The statement was made after North Korea's continual missile and nuclear testing, as well as aggressive statements towards South Korea and the U.S.

So far, North Korea has conducted its fifth nuclear device test and acquired a new ballistic missile. Furthermore, the country is claiming to have the power to have these weapons reach U.S. soil, though experts are skeptical of such declaration.

On the other side of things, the U.S. already has a significant military presence in South Korea with numbers of about 28,500 U.S. troops. Furthermore, Secretary Mattis has confirmed plans of deploying a U.S. missile defense system sometime this year.

While such systems may mean more protection, China, Russia, and some of South Korea's citizens fear the missiles would be too provocative and could be potential targets and endanger nearby life. While Secretary Mattis assures only North Korea should be concerned, China remains opposed to the idea.

### New Zika Vaccine Candidate

After months of trying to create a virus to combat the Zika virus, scientists think they may have a successful vaccine. Zika virus while causing flu like symptoms and is not a huge concern for adults, the dangers are found with pregnant women.

The virus can cause severe birth defects in newborns. A common defect is microcephaly, or an abnormal small size of the head and brain. The virus infection also correlates with vision, hearing, and nervous system damage of the newborns.

With the recent outbreaks in Latin America and certain portions of the United States, scientists have been scrambling for a vaccine. While several candidates have been made and tested in animals previously, this one is the first to show a resilient and durable protection. The mice treated with the vaccine showed resiliency against the virus after two weeks and five months since the vaccination. Moreover, macaque monkeys showed resiliency after five weeks since the injection.

With such successes, the researchers are hoping to start clinical trials in 12 to 18 months. However, the worry now is that humans will not respond similarly to the mice.

### Researchers Investigate Misophonia Disorder

Odds are, everyone knows someone who is suffering misophonia. In spite of the ominous name, it is not a super bacteria. Misophonia is an extreme dislike to certain noises. Noises that may include nails being scraped down a blackboard and chewing.

Researchers have recently scanned the brains of 20 misophonic brains and 22 misophonic-free brains with an MRI while playing one of three sounds: neutral sounds like rain, generally unpleasant sounds like screaming, and potentially triggering sounds like chewing. The results revealed a hyperactive anterior insular cortex, the region that joins senses with emotion.

Furthermore, the reaction when triggered is mostly anger. While there are mild cases, some cases may cause individuals to be unable to have a job. Therefore, researchers are also hoping further understanding may lead to new treatments. One idea is to have low levels of electricity to pass through the skull.

For those who do have it, however, it is advised they avoid caffeine and alcohol as these substances can make the condition worse while the substances are in the body.

Lauren Wiseman

**News Editor**

Seventh week brought companies from around the nation to Rose-Hulman's campus for the winter Career Fair. For eight companies in particular, they came a day early for the inaugural Rose Diversity Connect event. The companies came to interact with diverse Rose-Hulman students through three events over the course of a day. Through student competitions, leadership simulations, and a lunch bistro, students had a chance to show off the intellect they hone every day in classes.

"The objective of Rose Diversity Connect was to connect our diverse students with corporations," explained Center for Diversity Director Janice Fenn. While academics is a huge priority for students of all years, many students would consider the job hunt a focus for seniors. Fenn wants to change this perception through events like Rose Diversity Connect: "What I'm impressing upon [students] is you need to start building that relationship [with companies] as soon as you get on campus."

Students had the opportunity to connect and build relationships with corporate representatives the day before the winter career fair. Rose Diversity Connect was a collaboration between the

## "It doesn't matter who gets [students] the attention they need or gets them to the right company, the goal is to get them there."

Center for Diversity, Career Services, and Corporate Relations. Career Services helped find companies with diversity initiatives, and Corporate Relations had the necessary connections to company representatives. "We had a great partnership," Fenn went on to say. The collaboration between the offices reveals the common goal: "It doesn't matter who gets [students] the attention they need or gets them to the right company, the goal is to get them there."

So how did Rose Diversity Connect accomplish this? There were three events, the first of which was the student competition. Twenty-two student teams tackled challenges set forth by the by the Diversity Council, and finalized by Associate Professor of Electrical and Computer Engineering, Dr. Carlotta Berry. These challenges focused on real-world problems, including finding a way to disable drones in the path of airplanes, or designing a solution to sanitizing bathroom exits. The latter was the choice for 70 percent of the student groups. Company representatives and faculty judges evaluated the solutions, and chose winning teams. The winning teams received a \$250 Visa gift card for each member.

The gift cards were not the only prizes up for grabs during the event. "We asked the companies to provide funding for the Center for Diversity for their participation," Fenn explained. While some of the money went towards prizes and awards for the student competitions, diverse student organizations also had a chance to earn money for their clubs. "We created a point system to incentivize participation." So organizations like the Society of Women Engineers (SWE), Society of Asian Scientists and Engineers (SASE), Society of Hispanic Professional Engineers (SHPE), National Society of Black Engineers

(NSBE), Unity, Women of Like Fields Passionate About Computing (Wolfpac), and Rose Building Undergraduate Diversity (Rose-BUD) had a chance to earn money for their clubs. Each member of a diversity organization earned points for their organization for every event in which they participated, and the club that garnered the most participation points would win \$5000 for their club.

Beyond the student competition, there were events designed to prepare and connect. Three companies led Leadership Simulations. Cummins, Inc., Berry Plastics, and Allison Transmission focused on "teaching, or reinforcing, critical leadership concepts students would need to be successful in the workplace." The learning was paired with activities to make sure the material stuck with students.

The remaining five companies hosted lunch bistros set up in the balcony of the SRC, with each company inviting 14-16 students. Each company was encouraged to order food from restaurants around town. This event provided a chance for students to "sit down and have a great meal in an informal setting," Fenn said. For students, this was an invaluable experience, as their interactions with company representatives are limited at the career fair. Sitting around a table enjoying lunch breaks down the barriers and creates a more

comfortable environment for engagement. Companies love Rose-Hulman and want to see more of the diverse students that come here. Events of this nature can provide great exposure for students. Through another event designed to provide exposure for diverse students, The Diversity Accelerator (a speed-dating formatted dinner), Eli Lilly met a student during the

evening who will intern with them this summer. The students and the companies appreciated the event so much that it is scheduled to take place again this year. However, Fenn added, "It's not any one single event." It takes repeated exposure to foster the connections between students and companies.

This collaboration between the Center for Diversity, Career Services, and Corporate Relations provided Rose-Hulman's diverse students with unprecedented opportunities to not only gain exposure to top companies, but to showcase their talents and skills, demonstrating why Rose-Hulman is at the top

## "It takes repeated exposure to foster the connections between students and companies."

of so many companies' recruiting lists. However, "You must strive to make the event better each time, and you can't get better unless you know what people really think," Fenn said. Currently, the Center for Diversity is soliciting feedback from the participating companies in order to plan its next Rose Diversity Connect the day before the fall career fair.

With this year's Rose Diversity Connect "connected", Fenn and the Center for Diversity are back to the grindstone. The Center for Diversity has many more events coming up this spring, one of which is the SPARK competition. SPARK is a robotics challenge where we pair diverse high school students with Rose-Hulman students to create 4-person competition teams. The Center for Diversity office is lending its support to this challenge by reaching out to high schools in the Midwest to generate interest in SPARK. There is a bonus for this outreach, as it turns out to be a wonderful opportunity to expose high school students interested in STEM to Rose-Hulman.



## Z: The Beginning of Everything The Spirit of the Roaring Twenties

Lauren Wiseman

News Editor

F. Scott and Zelda Fitzgerald embodied the spirit and life of the Roaring Twenties. His novels helped define a generation and her look created a way of life, but theirs was a tumultuous existence. Amazon Prime continues with their original series with Z: The Beginning of Everything.

Season one opens in Montgomery, Alabama, during World War I and ends in New York City during the Jazz Age. The Montgomery scenes are good, but as a result, the show has a rather slow opening. It does the necessary grind work of establishing Zelda (Christina Ricci) as a girl against the grain

who refuses to sit pretty, and establishing Scott (David Hoflin) as a man with his eye on greatness and his head in the clouds. That could have taken a single episode, instead of three and a half. A bright patch in the Montgomery episodes, though, was David Strathairn playing Zelda's father. After spending a lot of time as the stern judge, the stereotypical hard edge, he displayed moments of genuine heart that portrayed him as more human and conveyed a much deeper character than viewers were led to believe.

When the show moves to New York, though, things really took off. The parties, the conflict, and the jealousy begins to accumulate. Suddenly, Zelda realizes New York is not Alabama, Scott cannot finish a second novel,

and the insecurities come to the surface. When the jazz music has a chance to carry over the montages, the show moves quicker. In spite of the quicker pacing, there are moments that feel more like a sitcom, even with the show (supposedly) having factual basis: Zelda feels slighted when Scott sends Zelda out for clothes befitting a New Yorker, Scott is jealous of Zelda having a successful screen test for a film, Scott's speaking engagement at Princeton does not go according to plan, the list goes on.

While the writing can be lacking in places, and some transitions have music that does not fit the mood, Hoflin and Ricci are stunning together, and that makes up for a lot. Hoflin portrays F. Scott with a heartbreaking, crippling insecurity, eliciting sympathy and, at times, fury from viewers. He is a dead ringer for the writer. Ricci is right at home as Zelda, with just a certain something that makes her absolutely perfect for the role. Maybe it is in her smile or the confidence with which she delivers her lines and conducts herself—she does a tremendous job. No, she does not really look like Zelda. Allison Pill's portrayal in Midnight in Paris was more like Zelda than Ricci. That is neither here nor there, really, because the heart and soul is there.

Of the ten first episodes, the best episode is episode seven. The last ten minutes are so well acted, and it shows the first irreparable cracks in their lives. Should Amazon make and release a season two, it should be better than the first season, as viewers know the characters and their problems, the writing can hit the ground running and get right to the point. For five hours of commitment, it was worth a watch. I know for myself, I want to see the animosity between Zelda and Ernest Hemingway on screen.

*(Word to the wise: If full frontal nudity is off-putting, be aware there is a moment in episode four that displays a character completely naked.)*



Christina Ricci's portrayal of Zelda Fitzgerald truly captures the soul of the character.

Photo courtesy of comingsoon.net



## Lights! Camera! Sing! A Review of Sing

Lauren Santichen

Flipside Editor

Released in the last two weeks of 2016, Sing is an animated movie created by Illumination Entertainment, a smaller company than Disney-Pixar and DreamWorks, but no less impressive. Having given rise to the Despicable Me movies and Horton Hears a Who, Illumination has brought us another light-hearted animated movie with some pretty serious themes.

It wouldn't be right to talk about the plot of Sing, because there are many plots all tied together. Buster Moon the koala wants to save his theater that's on the verge of bankruptcy. Rosita the pig wants a break from her monotonous life as a stay-at-home mom. Johnny the gorilla struggles between following his dreams and following the footsteps of his criminal father.

Meena the elephant just wants to sing. This play on many characters is unusual for a children's film as children nowadays have smaller attention spans. Whether this works or not, I'm not sure, but I am certain of one thing: having more characters equals having more connections. Maybe I don't connect with Ash -a rock-star porcupine whose boyfriend cheats on her. I can't understand how she feels, but I know how Meena feels, just wanting to sing and be heard. I can't understand how Rosita feels, being a mother of 24 piglets, but I can understand how Buster



Truly an ensemble number.

Photo courtesy of screenrant.com

feels, just wanting to keep hold of a childhood dream.

I think the play on characters and individual stories works well with the overall goal of saving the theater and ties in nicely with the end of the singing competition. As with most kids movies, the finale wraps up with all the participants getting their wish or due punishment and having a moment alone in the spotlight.

As far as animation goes, scenes fit together flawlessly. The most intensive scene was one seen in the trailer. The theater built a

stage on glass aquariums filled with neon-lit squid which moved and lit up to various musical beats. Immediately after a confrontation with a mafia-like trio, the stage cracks and unleashes hundreds of gallons of water in a flurry of motion and chaos. Having taken Computer Graphics here at Rose, I can appreciate the time and effort it took to get the scenes compiled and as realistic looking as possible for an animated kids film.

Overall, this turns out to be a heartfelt story about dreams and trying, even if it means you might fail. It's a good lesson for any age, no matter the media that is used to transmit it. There were some places that I got a little confused or that didn't quite fit with the characters presented, but overall the story, characters, and animation meshed well with each other.

“Overall, this turns out to be a heartfelt story about dreams and trying, even if it means you might fail.”





## THE EVOLUTION OF AVENGED SOUND

Andrew Henderson  
Guest Writer

Avenged Sevenfold is a metal and hardcore rock band that, late last October released its latest Album “The stage” to critical acclaim and immense popularity, hitting number 4 on US top 200. However, “The Stage” was a large change in sound for the band, with a move to an even more ballad form of lyrics, a more progressive metal and experimental guitar riffs, and was one of Sevenfold’s longest album totaling 73 minutes with 35 minutes of those minutes being actual music. These changes to Avenged Sevenfold’s music are not that uncommon for the band, as since their debut album “Sounding the Seventh Trumpet” from 2001 was incredibly different from the rest of their later albums. “Sounding of the Seventh Trumpet” which references the trumpet that brings the end of the world (the first of many biblical allusions Avenged Sevenfold would use), was unlike most of their later albums. With very hard guitar riffs, heavy leading vocals and slow but intense musical passages, the album was well received by critics, however only 300 copies were sold in its first week. The album was well made, but showcased Sevenfold’s young age (still in high school at this point) through how much of the bands influences from early 90’s metalcore bands appeared in their music. Later in 2001, Avenged sevenfold would release an extended play of their debut with a new single and a remake of “To End The Rapture” which was more heavy metal rather than they’re earlier metalcore style, which blends metal and hardcore punk.

The band would take the lesson’s learned from their first album and create far greater success with their second album “Walking the Fallen”. The album while still having the metalcore sound from their debut album, showcased far cleaner and easier to understand singing, a major problem listeners had with the first album. “Walking the Fallen” would become Avenged Sevenfold’s first truly successful release, gathering critical acclaim and getting the rising band compared to big name bands like Iron Maiden and Metallica. The album would also sell extremely well, selling 3,000 copies in the first week and having sold almost 700,000 copies since 2014 (comparable to only 300,000 for the debut to today). This album is when Avenged Sevenfold started to gather a following and their fan base would continue to grow with the 2005 release of “City of Evil”.

“City of Evil” was a move to far more traditional heavy metal and hard rock sounds for Avenged Sevenfold, moving away from their metalcore roots and was notably absent of any screaming vocals as the lead singer M. Shadows worked for months with vocal coach Ron Anderson to build his new sound. He wanted this new album to have “grit while still having the tone” and this change was incredibly successful. “City of Evil” contains some of Avenged Sevenfold’s most popular and famous songs, with their arguably most successful single “Bat Country” being in the Album with other large sellers like “Beast and the Harlot” and “Seize the Day”. “City of Evil” by this date has sold

1,500,000 copies in the United States, 2,500,000 total worldwide, and has been debated as one of best albums in of all time. Both the bands and critics have pointed to the style change from metalcore to more melodic music as the cause of the band’s instant success with “City of Evil”. This album was also the longest song Sevenfold had produced until “The Stage” with a 72 minute and 39 seconds run time.

In October 2007 the band released their fourth album, self-titled “Avenged Sevenfold”, it would continue to be a heavy metal and hard rock album, but took far more experimental sound that moves away from the metal characteristics used in earlier albums. This was especially true for the “A Little Piece of Heaven” which was an avant-garde metal song inspired by broadways show tunes and used a brass and string section. A controversial album and song, the band would not rate as high by most critics as they were critical of the overdubs and over polishing by edits, still the album would go gold and then later platinum and “A Little Piece of Heaven” would win the fan favorite in an Avenged Sevenfold held poll. After the release of a live version of many of Avenged Sevenfold son in the album “Live in the LBC & Diamonds in the Rough” in 2008 the band would release the Album “Nightmare” in 2010, however their long time drummer The Rex would die from an overdose before release and be replaced by Mike Portnoy. The album was critically enjoyed and continued the heave metal and hard rock sound of city evil, acting as a form of a sendoff and thank you to The Rev.

The band’s next release would occur in 2013 with “Hail to the King”, an album that left behind the hardcore rock elements of their music. The album was far heavier than their earlier works with a greater concentration on guitar riffs and less melody singing. Closer to the classical metal the band seemed to want to be in their debut album, the album displayed how much the band had matured. The “Hail to the King” was heavily based in the religious themes Avenged Sevenfold has been working off since their debut and would be the last album before their newest release “The Stage”. As stated before, “The Stage” is likely the largest change in style Avenged Sevenfold has had since “The City of Evil”, displaying more aggressive vocal styles, melodies and thrash metal riffs than ever before. The album was also Avenged displaying a wish to tell stories through the music, creating an album based around human and natural history, artificial intelligence, science driven ideas like space exploration and the future of society. The Band's highest rated album since “City of Evil”, the album is doing so well (even with the surprise release that wasn’t promoted) that some expect it to outpace “City of Evil” to become their most successful album yet. Avenged sevenfold has been an always evolving band that exploded into the metal mainstream in the early 2000’s and to this day is still experimenting with their style with each album. And with the success of their newest album, which even those the most critical of them have given high rating, their future seems well set to continue to make music.



The members of Avenged Sevenfold posing for a picture.

Photo Courtesy of [rollingstone.com](#)

## Diary of An Assassin-Part 2

You need to chill.

Seun Ladipo  
Lifestyle Editor

As Monday came around and the clock stuck 12:00 midnight I knew that had survived another week. By now, there were less than half of the people in the game than had begun. The tension in the hallways had cooled off, as there were less and less people alive to compete for the final prize. As for my killer, she had not pursued me for some time now, at least to my own knowledge. Word on the street was that she had given up because she knew I was on to her although I had the exact opposite from others as well. The only fact of the matter was that we were both still alive and I had to continue my pursuit to stay this way.

Fast forward to Thursday. I was at the bi monthly Sophomore Advisor meeting in the Union and the meeting was nearing its end. We were nearing the end of sharing stories about our resident’s when one of the other SA’s had informed the group that one of her freshman had been locked in a closet adjacent to the room we were meeting. I laughed to myself wondering why they were they there in the first place. She then proceeded to tell us that they were there to kill me. My laughter had stopped immediately while everyone else had burst out laughing in my anguish once again.

I knew I had gotten much too comfortable. As soon as the meeting was over I ran back to my room to safety. As I am writing this once again I still am alive although if I will survive even this weekend I do not know.



Nowhere is safe.

Photo Courtesy of [Wordpress.com](#)



## “Us vs. Them”: The Immigration Ban

...shocked by how an executive order could jeopardize so many families.

Dara Nafiu  
Guest Writer

As frustrated commuters and blank-faced TSA agents packed into the terminal waiting area, the heat in the Tehran International Airport was merciless. MIT student and legal visa holder Niki Rahmati, who had spent winter break visiting her parents in Iran, was attempting to return to Boston when the U.S.’s temporary immigration ban went into effect. She was just one of nearly 200 individuals prevented from boarding their connecting flights into the States.

In a sweeping action that mystified natural-born U.S. citizens and immigrants alike, President Trump’s Executive Order 13769 temporarily ceased all incoming travel from seven Muslim-majority nations—Iran, Iraq, Sudan, Libya, Yemen, Syria, and Somalia. Some, like Fuad Suleman and his young family, who had already sold the full extent of their belongings in Iraq, didn’t even have a car, house, or job to return to.

Millions of Americans were shocked by how an executive order and a signature could simultaneously jeopardize so many families and professional futures. This interim of confusion and disbelief only lasted a few hours. By the 29th, massive protests had erupted in airports across the United States, many of which are still in full swing. JFK International, Logan International, Detroit Metropolitan, and LAX are just a few examples major airports that were clogged terminal-to-terminal with social activists and, more importantly, lawyers.

While the protests were mostly peaceful, traffic blockage caused several out-bound commuters to miss their flights. While news of the executive order left many dumbfounded and unable to re-enter a country that had become their home, it is important to realize that this didn’t come out of nowhere. President Trump’s ban is evident of a long-standing hostility to-

wards Islam in his party that has been reinforced by fear.

Ben Carson, for example, compared the influx Syrian refugees to “rabid dogs” released on a peaceful neighborhood. While also on the campaign trail, Donald Trump alleged that there was “cheering” in areas with “high Arabic populations” in the wake of the 9/11 attacks. The Pew Research Center has released two studies since 2014 that indicate that more Republicans view Islam as a direct threat than Democrats, with over 80% concerned about the spread of Islamic extremism. These statements, combined with the more recent outbreak in Muslim-focused hate crimes, have served to facilitate the recent transition from patriotism to nationalism.

On the surface, we understand that legal immigrants have every right to be here, but hearing campaign slogans linking them to our socioeconomic problems (“they’re rapists, they’re drug dealers”) desensitizes us to their plight. Studies have shown that most instances of Islamic terrorism have been the result of increased tensions between Middle Eastern countries and “The West.” ISIS and similar terror networks thrive off of this. When the POTUS posts offensive tweets, he inflames negative feelings between America and Arab nations.

In a form of twisted irony that would almost be amusing if it didn’t directly endanger me and my fellow Americans, Donald Trump is proliferating the very radicalism he seeks to eliminate. Our commander-in-chief unfortunately does not seem to have a firm grasp of this fundamental concept. In fact, there are several simple realities regarding domestic terrorism and the Muslim faith as a whole that he does not seem to understand. He cited “radical Islamic terrorism” and illegal immigration as justifications for the ban.

However, a recent 40-year study by the CATO Institute revealed that the chance that an American citizen will be killed by a foreign ter-

rorist is about 1 in 3.6 million per year ([cato.org/publications/policy-analysis/terrorism-immigration-risk-analysis](http://cato.org/publications/policy-analysis/terrorism-immigration-risk-analysis)). That’s a 0.000000278% probability. As a whole, barely 0.006% of all mass shootings in America have been perpetuated by Muslims. This has less to do with actual “danger”, like former NY mayor Rudy Giuliani suggested in his defense of the ban, and more with the persecution of faith. For many, this is not about winners vs. losers, but life and death. There are far more effective ways to combat terrorism, such as the 2-year screening process already in place. The MIT community rallied around stranded students like Niki, connecting them to legal resources and prioritizing their safe and legal return to campus. Are we prepared to do the same for our own fellow foreign students here at Rose?



Protests at ATL Airport

Photo by Allison Guillory / WAB

## Severed, We Fall

Thaddeus Hughes  
Opinions Editor

Plaid and polka dots. M&Ms and Skittles. Orange juice and cereal. Classic examples of things that should be kept as far away from each other as possible. In keeping with these, ‘Separation of church and state’ has often been cited as an important American principle, one written into and engrained in the U.S. constitution. Aside from the fact that this is merely a saying that took root around Thomas Jefferson’s presidency, the implication that this means religious views ought to be severed from politics is bogus.

The relevant script of the first amendment is: “Congress shall make no law respecting an establishment of religion”. Nothing ousting religious concerns from the federal government. In fact, in order for this to be well-enforced, it requires the political concerns from many religions, so that no one group may secure political favor.

Politics is the philosophy of rule, and religion is the philosophy of life. Unsurprisingly, there is an enormous amount of overlap. Regardless, instead of living out a religious life, many people treat worship as a separate and confined part of their lives, ignoring the reality that every action, no matter how minute, has religious influences and implications. Christians are called to help our fellow man, and not to seek to rule over him. If the laws of a nation do not reflect and assist the philosophical beliefs of its people, then what purpose do they serve? Why, then, do we insist on restricting the voicing of these philosophical beliefs to those secular in nature?

If the purpose of a nation’s legislation is ultimately economic in nature,



They wouldn’t be out here if politics didn’t overlap with religion.

Photo by Alex Brandon / AP

We cannot sacrifice morality at the altar of economic gain, even if it is ‘for the greater good’.

then we have forgotten our own nature as spiritual individuals. We are more than just material beings. We cannot sacrifice conviction and morality at the altar of economic gain, even if it is “for the greater good”. Our laws must not be rooted in what appears to provide the most utility, because it is evident that self-actualization, self-direction, and sense of community are values that, while they cannot be assigned a dollar amount, are goals of life.

The assault is constant. Generic cries of, “If republicans don’t support welfare, can they really consider themselves Christian?”, and “Why do poor conservatives support the very policies that put them in the place they are?” come up in conversation and media all the time. The answer is simple. Immediate economic results mask people’s personal values of self-sufficiency that cannot be measured with a dollar amount. As such, these values are once again sacrificed at the altar of economic gain by secularists and Christians who sympathize with a secularist worldview.

In the past century the push is not towards freedom of religion, but freedom from religion. While marriage once originated from the churches and was eventually recognized by state and federal governments, it now originates in the state legislature and is funneled down to the churches. The difference is subtle, but reduces the power local churches have within their communities. Straying far from not establishing religion, Congress has turned the government into an entity capable of overstepping churches.

While many fear a government that has strong ties to a church becoming theocratic and stamping out religious viewpoints that it does not agree with, the opposite, a government with no respect for religious viewpoints, can have the same effect of stamping out all religious viewpoints and leaving behind only secularism.

There’s a quiet but growing cry for Christians to “take back” America. What this means though, is unclear, and in lack of definition has been driven away from true freedom of religion, and towards forcing “good Christian practices” upon the entirety of the population. However, far from actually reinstating Christian principles and the strong role of local churches, it only serves to further the role of the government as a creator and enforcer of theological thought.

The solution, then, is not to seek new, more just rulers to put in power, but to stop enforcing our religious views with the guns of government, and to question what spiritual values are sacrificed with every policy decision. We must separate church and state, but we must unite our religion and politics.



National Basketball Association

Blake Powell

Sports Editor

The previous two seasons have resulted in a Finals game featuring the Cleveland Cavaliers and the Golden State Warriors and everyone is expecting to see a third Finals appearance from each team this season. Golden State is dominating the league again with a 43-8 record while trying to surpass last season's record of 73-9, which went down as the best regular season record of all time.

Golden State currently is standing at first in the Western Conference while also having the best record in the league. Cleveland is leading the Eastern Conference with a 34-15 record. Cleveland has been struggling recently as they have faced a lot of adversity such as one of their star players, JR Smith, sitting out, along with many other adjustments to their roster.

It is tough for a team to play well together when the roster is consistently changing because of their desperation to play at such a high level. Cleveland has lost four of their last eight games which isn't what is expected from a reigning Championship team so hopefully Cleveland can pull it together and make a run at the Finals again for a third straight season in a

row while making it LeBron's 7th straight Finals appearance.

Although it seems as if most fans would love to see the rematch of Golden State versus Cleveland, it is still any teams' game to win as there is enough season left for any team to come together and make a run for the Finals. There are four teams in the Eastern Conference that only have four or less wins than the Cleveland Cavaliers; the Boston Celtics (32-18), Washington Wizards (30-20), Atlanta Hawks (30-21) and the Toronto Raptors (30-21). Golden State looks to have the Western Conference wrapped up; however, the San Antonio Spurs stand at second in the Western Conference with a record of 39-11 while the Houston Rockets stand at third with a record of 37-17.

It sure is exciting to see what will happen with this season because there are so many teams playing at a tremendous level. Can any team in the Eastern Conference beat LeBron James and the Cleveland Cavaliers? Can any team in the Western Conference take down the super team of Curry, Green, Thompson and Durant? We still have about four months until we find out who will be competing to be the NBA Champions, which will begin on June 1st.

RHIT Diving

Blake Powell

Sports Editor

The Men's diving team stands at second and the Women's diving team stands at third out of the six teams competing at the College Conference of Illinois and Wisconsin Swimming and Diving Championships which were held Friday and Saturday at Illinois Wesleyan University.

The Women's team was carried by two freshmen; Michelle Reese earned an all-league recognition with second-place in one meter diving while Michaela Kivett took third place in one-meter diving. The Men's team was lead by Ben Strate, Joshua Schnipke and Zsolt Truckai.

The College Conference of Illinois and Wisconsin Swimming and Diving Championships will resume with the swimming portion on Thursday through Saturday at Pleasant Prairie, Wisconsin.



Diving teams were successful this weekend.

Photo by Rose-Hulman Athletics



Burning rubber on the SRC track.

Photo by Rose-Hulman Athletics

RHIT Track

Blake Powell

Sports Editor

Our Men's and Women's teams are heading into the region strong as the Men currently stand at 3rd and the Women stand at 10th in the Great Lakes Region. The Men's team has won all three of their dual meets this season and the Women placed third at the Engineer Invitational meet.

National rankers include Jaclyn Setina with 7th in the women's high jump, Nick Palmer with 14th in the men's pole vault, Josh Himes with 23rd in shot put and 26th in the weight throw and Debie Gedeon with 30th in the 60-meter hurdles.

Rose-Hulman will be back in action as they compete in the DePauw Invitational on February 11th and then the Fightin' Engineers will host the Heartland Collegiate Athletic Conference Championships on February 18th at the Sports and Recreation Center.

RHIT SPORTS BOX SCORES

RHIT Men's Basketball

Blake Powell

Sports Editor

The Men's basketball team put up a great fight against Mt. St. Joseph by taking the game into overtime against the 1st ranked team in the HCAC. The conference tournament is approaching so this is a good sign to see that our team can play with any team out there but they just need to take their game to the next level in order to make a run in the tournament. The men take on Earlham at home on Wednesday.

MEN'S BASKETBALL	1	2	OT	FINAL
ROSE-HULMAN	31	29	8	68
MT. ST. JOSEPH	30	30	16	76

Standout Performers

Charlie Aimone-15 points, 6 rebounds, 2 assists

Collin Wojcik-14 points, 2 rebounds, 2 assists

Nick McGrail-12 points, 4 rebounds

If I had to pick the water boy or David, I'd say they're the same person

RHIT Women's Basketball

Blake Powell

Sports Editor

Our Women's team beat Mt. St. Joseph to increase their winning streak to 8 while extending their home court winning streak to 21. Every game counts for the Fightin' Engineers as they are playing to keep first place in the HCAC with their impressive 18-3 record and 13-1 in HCAC play. The Women return to play on Wednesday for a home game against Earlham for another game of conference play.

WOMEN'S BASKETBALL	1	2	3	4	FINAL
ROSE-HULMAN	15	15	12	12	54
MT. ST. JOSEPH	14	9	10	9	42

Standout Performers

Ally Bromenschenkel-18 points, 8 rebounds, 1 block

Josie Schmidt-14 points, 4 rebounds, 3 steals

Abby Bromenschenkel-6 points, 5 rebounds, 4 steals

Alyzia Dilworth-2 points, 7 rebounds, 5 assists



Ally Bromenschenkel taking it to the hole against Mt. St. Joseph.

Photo by Rose-Hulman Athletics

Intramural Standings

Basketball

Volleyball

Greek B

TEAM NAME	W	L	T	GP	STREAK	STAND-ING
Fiji B	5	0	0	5	W4	1st
Cat Salads	4	1	0	5	L1	2nd
Triangle B	3	2	0	5	L1	3rd
Pike Garnet	3	2	0	5	W2	3rd
ATO B	2	3	0	5	W1	5th
SigmaNu	2	3	0	5	W1	5th
Delta Sig	1	4	0	5	L2	7th
Pike Gold	0	5	0	5	L5	8th

Residence B

TEAM NAME	W	L	T	GP	STREAK	STAND-ING
GrandTheftRondo	7	0	0	7	W7	1st
BSBreak Yo Ankles	6	1	0	7	W1	2nd
HoopsDidItAgain	4	2	0	7	W1	3rd
Monstars	3	3	0	7	L1	4th
BetaSigmaBeta	3	3	0	7	W1	4th
Scharpenballers	2	4	0	7	L1	6th
Deming2D	1	6	0	7	L4	7th
TakeAShot4Haramb	0	7	0	7	L7	8th

Residence B

TEAM NAME	W	L	T	GP	STREAK	STAND-ING
StayLow	7	0	0	7	W6	1st
BSBlockParty	6	1	0	7	W5	2nd
OurNameWasn'tAp-	5	2	0	7	W1	3rd
D-O For Harambe	4	3	0	7	L1	4th
West Sets	4	3	0	7	W4	4th
ThatsWhatSheSet	4	3	0	7	W1	4th
Set to Kill	2	5	0	7	L4	7th
Pop A Volley	1	6	0	7	L4	8th
H,S, Mees and Toes	1	6	0	7	L4	8th
DadJeans	1	6	0	7	L1	8th



# Flipside8

## The HORRORscopes

We only use the realest of real horrorscoping technology here on the SideFlip. We determine your future and past by throwing finals out the window and sobbing quietly into our pillows. We hope that you find our process to be accurate and scientific.

- ARIES:** The difference between “Girlfriend” and “Girl Friend” is that little space in between we call the “Friend Zone”.
- TAURUS:** Hospitality: making your guests feel like they’re at home, even if you wish they were.
- GEMINI:** A recent study has found that women who carry a little extra weight live longer than the men who mention it.
- CANCER:** Intelligence is like underwear. It is important that you have it, but not necessary that you show it off.
- LEO:** Alcohol is a perfect solvent: it dissolves marriages, families and careers. Think before you drink.
- VIRGO:** The 50-50-90 rule: anytime you have a 50-50 chance of getting something right, there’s a 90% probability you’ll get it wrong.
- LIBRA:** Never laugh at your girlfriend’s choices... you are one of them.
- SCORPIO:** Good health is merely the slowest possible rate at which one can die.
- SAGITARIUS:** Life is all about perspective. The sinking of the Titanic was a miracle to the lobsters in the ship’s kitchen.
- CAPRICORN:** You know that tingly little feeling you get when you like someone? That’s your common sense leaving your body.
- AQUARIUS:** If you think nobody cares whether you’re alive, try missing a couple of payments.
- DISCES:** Team work is important; it helps to put the blame on someone else.



## Top 10 Ways to Decline a Job Offer

1. Be a civil and literally burn a bridge
2. Send a life-sized Trump cutout saying “You’re Fired”
3. Land a giant middle finger on a SpaceX Barge
4. Tell them your real GPA
5. Unfriend them on LinkedIn
6. Ghost them on all social media
7. Send a 3D copy of yourself
8. Text your recruiter, “Plz no Jaab”
9. Tell them your mom said “no”
10. Just Say No
11. It’s not you, it’s me
12. Send a selfie of you at the other company
13. Send the Communist Manifesto and rant about the oppressed proletariat

## Fact of the Week

On January 1, 1907, Theodore Roosevelt shook the hands of 8,510 people, setting a world record he held for over 70 years.

## WACKY PROF QUOTES

“Nope, Dr. Grimaldi is just hanging in there. I got this great cough medicine at home, but you’re not allowed to bring brandy on campus...”

**-Dr. Grimaldi**  
*Darn shame that is.*

“Your last three presidents, George Bush, Bill Clinton, and Barack Obama, were left-handed, like me. I should be the next president.”

**-Dr. Song**  
*Song 2020!*

“There’s nothing wrong with a bit of brandy for medicinal purposes...”

**-Dr. Grimaldi**  
*Nothing wrong at all!*

“Can we just cancel class and have a sit down and talk about life for a while?”

**-Dr. Jones**  
*42, there talk’s done.*

“I love being sick, you don’t even know who you are anymore.”

**-Dr. Grimaldi**  
*Or is it?*

Did your prof say something hilarious or just great out of context? We want to hear about it! Send your quotes with who said it to [thorn-flipside@rose-hulman.edu](mailto:thorn-flipside@rose-hulman.edu).